

Claims

[c1] What is claimed is:

1. An intake structure, installed in a projection apparatus which has at least one heating element, comprising:
at least one intake port disposed on said projection apparatus;
at least one air duct, and an inlet of said air duct is connected to said intake port and the outlet is disposed near said heating elements;
an exhaust fan disposed near said heating elements for outside air stream flowing through said heating elements.

[c2] 2. The intake structure as claimed in claim 1, wherein said air duct has a bent air path.

[c3] 3. The intake structure as claimed in claim 2, wherein the outlet of said air duct is connected to at least one splitting duct.

[c4] 4. The intake structure as claimed in claim 1, wherein said air duct has a straight air path.

[c5] 5. The intake structure as claimed in claim 4, wherein the outlet of said air duct is connected to at least one

splitting duct.

- [c6] 6.The intake structure as claimed in claim 1, wherein the outlet of said air duct is near said heating elements.
- [c7] 7.The intake structure as claimed in claim 1, wherein said exhaust fan is disposed near said heating elements and said air duct for guiding outside air stream flowing through said heating elements.
- [c8] 8.The intake structure as claimed in claim 1, wherein the area of said inlet of said air duct to be set depends on the area of said intake port.
- [c9] 9.The intake structure as claimed in claim 1, wherein the quantity of said air duct to be set depends on the quantity of said heating element.
- [c10] 10.The intake structure as claimed in claim 1, wherein the distance between said heating elements and the outlet of said air duct is 1 to 10 mm.
- [c11] 11.The intake structure as claimed in claim 1, wherein said heating elements is an integration rod.
- [c12] 12.The intake structure as claimed in claim 1, wherein said heating elements is relay lens.
- [c13] 13.The intake structure as claimed in claim 1, wherein

said heating elements is a condenser.

[c14] 14.The intake structure as claimed in claim 1, wherein said heating elements is an electronic component.

[c15] 15.The intake structure as claimed in claim 1, wherein said heating element is a color wheel.